



the United States Patent and Trademark Office

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ORIENTATION AND POSITION SENSOR

Serial Entry Date 2001-Independent Inventor(s)

Abstract: A sensor system for determining orientation and position of a device relative to a reference point. The system includes a sensor unit and a processing unit. The sensor unit includes a gyroscope and an accelerometer. The processing unit is configured to receive data from the sensor unit and to calculate the orientation and position of the device. The system is suitable for use in a variety of applications, including navigation and tracking.

Claims: 1. A sensor system for determining orientation and position of a device relative to a reference point, comprising: a sensor unit; and a processing unit configured to receive data from the sensor unit and to calculate the orientation and position of the device.

2. The sensor system of claim 1, wherein the sensor unit includes a gyroscope and an accelerometer.

3. The sensor system of claim 1, wherein the processing unit is configured to calculate the orientation and position of the device based on data received from the sensor unit.

4. The sensor system of claim 1, wherein the sensor unit is configured to provide real-time data to the processing unit.

5. The sensor system of claim 1, wherein the sensor unit is configured to provide data to the processing unit via a wireless communication link.

6. The sensor system of claim 1, wherein the sensor unit is configured to provide data to the processing unit via a wired communication link.

7. The sensor system of claim 1, wherein the sensor unit is configured to provide data to the processing unit via a combination of wireless and wired communication links.

8. The sensor system of claim 1, wherein the sensor unit is configured to provide data to the processing unit via a network.

9. The sensor system of claim 1, wherein the sensor unit is configured to provide data to the processing unit via a local area network.

10. The sensor system of claim 1, wherein the sensor unit is configured to provide data to the processing unit via a wide area network.

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6/27/2001

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